

National Transportation Safety Board Aviation Accident Final Report

Location: BISMARCK, ND Accident Number: CHI93LA128

Date & Time: 03/10/1993, 2222 CST Registration: N88384

Aircraft: BELLANCA 7GCBC Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

THE PILOT DEPARTED GRAND ISLAND WITH FULL FUEL AND CALCULATIONS INDICATED AN EN ROUTE FUEL STOP WOULD BE REQUIRED. WHILE EN ROUTE, THE PILOT RECALCULATED THE FUEL CONSUMPTION AND ELECTED NOT TO MAKE THE FUEL STOP BUT TO CONTINUE TO THE DESTINATION. FUEL EXHAUSTION OCCURRED DURING THE LANDING APPROACH AT THE DESTINATION AIRPORT. A FORCED LANDING WAS MADE ON A ROAD DURING WHICH THE RIGHT WING CONTACTED A TREE.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO REFUEL THE AIRPLANE EN ROUTE TO ENSURE ADEQUATE FUEL TO COMPLETE THE FLIGHT.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: APPROACH

Findings

1. FLUID, FUEL - EXHAUSTION

2. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

3. (F) FUEL CONSUMPTION CALCULATIONS - INACCURATE - PILOT IN COMMAND

4. (C) REFUELING - NOT PERFORMED - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Findings

5. (F) LIGHT CONDITION - BRIGHT NIGHT

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING - ROLL

Findings

6. (F) OBJECT - TREE(S)

Page 2 of 5 CHI93LA128

Factual Information

Pilot Information

Certificate:	Commercial	Age:	45, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	02/04/1993
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1000 hours (Total, all aircraft), 251 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

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Aircraft Make:	BELLANCA	Registration:	N88384
Model/Series:	7GCBC 7GCBC	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	774-75
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	01/02/2000, 100 Hour	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-320
Registered Owner:	LEROY E. NIELSEN	Rated Power:	150 hp
Operator:	LEROY E. NIELSEN	Operating Certificate(s) Held:	None

Page 3 of 5 CHI93LA128

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Bright
Observation Facility, Elevation:	BIS, 1677 ft msl	Distance from Accident Site:	3 Nautical Miles
Observation Time:	2150 CST	Direction from Accident Site:	310°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	12 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	90°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	-8°C / -9°C
Precipitation and Obscuration:			
Departure Point:	GRAND ISLAND, NE (GRI)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1820 CST	Type of Airspace:	Class D

Airport Information

Airport:	BISMARCK MUNICIPAL (BIS)	Runway Surface Type:	N/A
Airport Elevation:	1677 ft	Runway Surface Condition:	
Runway Used:	31	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced Landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	PAMELA S SULLIVAN	Report Date:	11/03/1993
Additional Participating Persons:	ROBERT HARRIS; FARGO, ND		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

Page 4 of 5 CHI93LA128

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

Page 5 of 5 CHI93LA128